

02-14-06

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PTO/SB/21-(09-04)

Approved for use through 07/31/2006, OMB 0551-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number

10/782,516

Filing Date

February 18, 2004

First Named Inventor

Dwight D. Lohr, et al.

Art Unit

Examiner Name

Attorney Docket Number

04015

## ENCLOSURES (Check all that apply)



Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/  
Incomplete ApplicationReply to Missing Parts  
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a  
Provisional Application

Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s)

☐ Landscape Table on CD

Remarks



After Allowance Communication to TC

Appeal Communication to Board  
of Appeals and InterferencesAppeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please identify  
below):

Return Postcard

Petition For Revival

Statement Under 37 CFR 3.73(b)

Supplemental Sheet

## Patent Application

The following documents executed  
by James B. Brown: Declaration,  
Power of Attorney, and Assign-  
ment re: Appln. Ser. No.  
10/782,516 dated 2/18/04

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name

Emch, Schaffer, Schaub &amp; Porcello Co., L.P.A.

Signature

*Philip M. Rice*

Printed name

Philip M. Rice

Date

Feb. 10, 2006

Reg. No.

20,855

## CERTIFICATE OF TRANSMISSION/MAILING Express Mail: EV547663828US

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

*Kathy A. Burgess*

Typed or printed name

Kathy A. Burgess

Date

2/10/06

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
PTO/SB/17 (12-04v2)  
Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 250.00

## Complete if Known

Application Number 10/782,516  
Filing Date February 18, 2004  
First Named Inventor Dwight D. Lohr et al.  
Examiner Name  
Art Unit  
Attorney Docket No. 04015

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):  
☒ Deposit Account Deposit Account Number: 15-0825 Deposit Account Name: Owen & Owen  
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply).  
☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## FEE CALCULATION

### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

### 2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims Extra Claims Fee (\$)

- 20 or HP = x =

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims Extra Claims Fee (\$)

- 3 or HP = x =

HP = highest number of independent claims paid for, if greater than 3.

### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$)

- 100 = / 50 = (round up to a whole number) x =

### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount) Fees Paid (\$)

Other (e.g., late filing surcharge): Petition Fee 250.00

## SUBMITTED BY

Signature Registration No. 20,855 Telephone 419-243-1294  
Name (Print/Type) Philip M. Rice Date Feb. 10 2006

This collection of information is required by 37 CFR 1.126. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT  
ABANDONED UNAVOIDABLY UNDER 37 CFR 1.137(a)**

Docket Number (Optional)

04015

First Named Inventor: Dwight D. Lohr et al.

Art Unit:

Application Number: 10/782,516

Examiner:

Filed: February 18, 2004

Title: Composite Hinged-Door and Insert Therefor

Attention: Office of Petitions

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

NOTE: If information or assistance is needed in completing this form, please contact  
Petitions Information at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.

**APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.**

NOTE: A grantable petition requires the following items:

- (1) Petition fee.
- (2) Reply and/or issue fee.
- (3) Terminal disclaimer with disclaimer fee-required for all utility and plant applications filed before June 8, 1995, and for all design applications; and
- (4) Adequate showing of the cause of unavoidable delay.

## 1. Petition fee

☒ Small entity – fee \$ 250.00 (37 CFR 1.17(l)). Applicant claims small entity status.  
See 37 CFR 1.27.

☐ Other than small entity – fee \$ \_\_\_\_\_ (37 CFR 1.17(l)).

## 2. Reply and/or fee

A The reply and/or fee to the above-noted Office action in the form of  
a check (identify the type of reply):

☐ has been filed previously on \_\_\_\_\_

☒ is enclosed herewith.

B The issue fee of \$ \_\_\_\_\_

☐ has been filed previously on \_\_\_\_\_

☐ is enclosed herewith.

[Page 1 of 3]

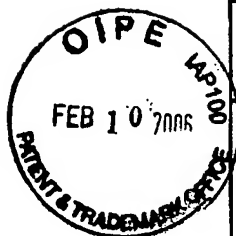
This collection of information is required by 37 CFR 1.137(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

02/15/2006 SFELEKE1 00000007 10782516

01 FC:2452

250.00 OP



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# **PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNAVOIDABLY UNDER 37 CFR 1.137(a)**

## 3. Terminal disclaimer with disclaimer fee

- ☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- ☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ \_\_\_\_\_ for a small entity or \$ \_\_\_\_\_ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

## 4. An adequate showing of the cause of the delay, and that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition under 37 CFR 1.137(a) was unavoidable, is enclosed.

### **WARNING:**

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

*Philip M. Rice*  
Signature

*Feb 10, 2006*  
Date

Philip M. Rice

Typed or printed name

20,855

Registration Number, if applicable

P.O. Box 916

Address

419-243-1294

Telephone Number

Toledo, OH 43697-0916

Address

Enclosure ☒ Fee Payment

☐ Reply

☐ Terminal Disclaimer Form

☒ Additional sheets containing statements establishing unavoidable delay

☒ Petition; and Statement Under 37 CFR 3.73(b)

### **CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR 1.8(a))**

I hereby certify that this correspondence is being:

☒ deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

☐ transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

2/10/06

Date

*Kathy A. Burgess*  
Signature

Kathy A. Burgess

Typed or printed name of person signing certificate

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED  
UNAVOIDABLY UNDER 37 CFR 1.137(a)**

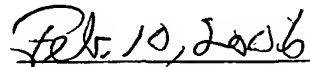
NOTE: The following showing of the cause of unavoidable delay must be signed by all applicants or by any other party who is presenting statements concerning the cause of delay.



Signature

Philip M. Rice

Typed or printed name



Date

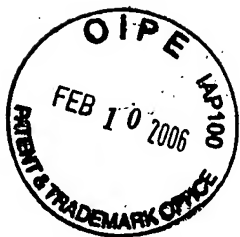
20,855

Registration Number, if applicable

(In the space provided below, please explain in detail the reasons for the delay in filing a proper reply.)

See attached Petition.

(Please attach additional sheets if additional space is needed.)



04015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Dwight D. Lohr et al.

Serial No: 10/782,516

Filed: February 18, 2004

For: COMPOSITE HINGED-DOOR AND INSERT THEREFOR

Exr.

Art Unit:

Confirmation No.:

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

February 10, 2006

**PETITION**

Sir:

Assignee of the above-identified patent application hereby petitions to have the patent application revived. Forwarded herewith are copies of the application, Declaration and Power of Attorney of James B. Brown dated November 1, 2005, an Assignment from James B. Brown assigning his rights to the patent application and the invention to Diamond Roll Up Door, Inc., an Employee Agreement Relating To Copyrights, Inventions and Confidentiality executed by Dwight D. Lohr on May 6, 2003, assigning to Diamond Roll Up Door, Inc. ("Diamond") all inventions conceived or developed by him during the course of his employment with Diamond and a

with Diamond and a Statement Under 37 CFR 3.73(b) executed by the President of Diamond Roll Up Door, Inc.

The patent application was filed without signatures on February 18, 2004, by Thomas A. Meehan, a former attorney in the office of Emch, Schaffer, Schaub & Porcello. Copies of U.S. Postal Service Express Mail No. EV325384772 US and return postcard with Patent Office Mail Room Date Stamp showing serial no. 10/782,516 and date of 02.18.04 are enclosed. No communication was received from the United States Patent & Trademark Office despite a communication filed by Mr. Meehan on November 17, 2004, rescinding a previous non-publication request, a preliminary amendment filed by Mr. Meehan dated December 16, 2004, and Status Inquiries filed by the undersigned dated January 17, 2005, April 22, 2005, and November 15, 2005. Copies of each of the above filings and a Declaration of the undersigned are enclosed herewith.

Mr. Meehan retired on December 31, 2004, and the application was assigned to the undersigned.

The experience of this office is that it is not unusual to have a delay of more than two years in receiving actions from the United States Patent and Trademark Office.

On February 7, 2006, the undersigned telephoned the office of Initial Patent Examination in an attempt to learn the reason for the absence of any

communication from the United States Patent & Trademark Office and was advised that the application was abandoned for failure to respond to a Request To File Missing Parts.

Since no communication was received by this office from the United States Patent & Trademark Office requesting any action and in view of the failure of the United States Patent & Trademark Office to respond to any of the Status Inquiries and other communications with the United States Patent & Trademark Office, it is clear that the abandonment of this application was unavoidable and unintentional. Accordingly, it is respectfully requested that the above-identified patent application be revived with a filing date of February 18, 2004.

Respectfully submitted,

EMCH, SCHAFFER, SCHAUB  
& PORCELLO CO., L.P.A.



Philip M. Rice  
Reg. 20,855

P.O. Box 916  
Toledo, Ohio 43697  
Ph: (419) 243-1294  
Fax (419) 243-8502





04015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Dwight D. Lohr et al.

Serial No: 10/782,516

Filed: February 18, 2004

For: COMPOSITE HINGED-DOOR AND INSERT THEREFOR

Exr.

Art Unit:

Confirmation No.:

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

February 10, 2006

**DECLARATION**

Sir:

This Declaration sets forth facts relating to a Petition To Revive the above-identified patent application filed herewith.

The records of my employer, Emch, Schaffer, Schaub & Porcello Co., L.P.A., show that the patent application was filed without signatures on February 18, 2004, by Thomas a Meehan, a former attorney in the office of Emch, Schaffer, Schaub & Porcello. Copies of U.S. Postal Service Express Mail No. EV325384772 US and return postcard with Patent Office Mail Room Date Stamp showing serial no. 10/782,516 and date of 02.18.04 are enclosed with the Petition. No

communication was received from the United States Patent & Trademark Office despite a communication filed by Mr. Meehan on November 17, 2004, rescinding a previous non-publication request, a preliminary amendment filed by Mr. Meehan dated December 16, 2004, and Status Inquiries filed by the undersigned dated January 17, 2005, April 22, 2005, and November 15, 2005. Copies of each of the above filings are enclosed with the Petition.

Mr. Meehan retired on December 31, 2004, and the application was assigned to the undersigned.

The experience of this office is that it is not unusual to have a delay of more than two years in receiving actions from the United States Patent and Trademark Office.

On February 7, 2006, the undersigned telephoned the office of Initial Patent Examination in an attempt to learn the reason for the absence of any communication from the United States Patent & Trademark Office and was advised that the application was abandoned for failure to respond to a Request To File Missing Parts.

Since no communication was received by this office from the United States Patent & Trademark Office requesting any action and in view of the failure of the United States Patent & Trademark Office to respond to any of the Status Inquiries and other communications with the United States Patent & Trademark Office, it is

clear that the abandonment of this application was unavoidable and unintentional.

Further Declarant sayeth naught.

The undersigned hereby declares that all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: Feb 10, 2006

Philip M. Rice  
Philip M. Rice



PTO/SB/81 (11-04)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# **POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM**

Application Number	10/782,516
Filing Date	February 18, 2004
First Named Inventor	Dwight W. Lohr et al.
Title	Composite Hinged-Door And ...
Art Unit	
Examiner Name	
Attorney Docket Number	04015

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number:

20879

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☒ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Signature

Name

James B. Brown

Date

11/1/05

Telephone

Title and Company

NOTE: Signatures of all the inventors or assignees or record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes in complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800 PTO-9199 and select option 2.

04015

**ASSIGNMENT**

WHEREAS, I, JAMES B. BROWN of 225 Sunset Drive, Lakewood, Illinois 60014, have invented a COMPOSITE HINGED-DOOR AND INSERT THEREFOR for which an application for United States Letters Patent was filed on February 18, 2004 and assigned Serial No. 10/782,516; and

WHEREAS, DIAMOND ROLL-UP DOOR, INC., of 295 Commerce Way, P.O. Box 420, Upper Sandusky, Ohio 43351, a corporation of Ohio, is desirous of acquiring the entire interest in and to said invention and any Letters Patent to issue therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other valuable considerations to me in hand paid, the receipt whereof is hereby acknowledged, I, JAMES B. BROWN, do hereby sell, assign and transfer unto the said, DIAMOND ROLL-UP DOOR, INC., its successors or assigns, the entire right, title and interest in and to said application and invention in the United States and all countries foreign thereto, including the right of priority under the International Convention of 1883 and later modifications thereof, and to any Letters Patent to issue therefor, and I hereby request the Commissioner of Patents and Trademarks of the United States to issue to said company any Letters Patent thereon, in accordance with the terms of this assignment.

04015

I agree to execute any and all documents required by said company, its successors or assigns, for the prosecution of said application, or of any division, continuation, reissue, or reexamination thereof, or for securing foreign patents covering said invention, and also any documents required by it, its successors or assigns, to more fully vest in it or them title to said invention, or to any application or patent that may be filed therefor or secured thereon.

  
JAMES B. BROWN

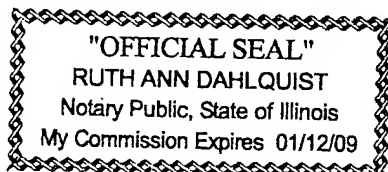
STATE OF ILLINOIS )

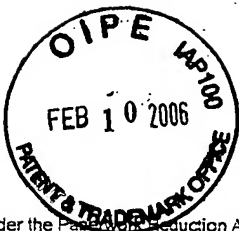
) ss.

COUNTY OF )

On this 1<sup>st</sup> day of Nov., 2005, before me appeared JAMES B. BROWN, to me personally known, and acknowledged the signing of the above instrument to be his free act and deed.

(SEAL)

  
Notary Public



PTO/SB/01 (09-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**☐Declaration  
Submitted  
With Initial  
Filing

OR

☒Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)Attorney Docket  
Number

04015

First Named Inventor

Dwight W. Lohr et al.

COMPLETE IF KNOWN

Application Number

10/782,516

Filing Date

February 18, 2004

Art Unit

Examiner Name

**I hereby declare that:**

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**COMPOSITE HINGED-DOOR AND INSERT THEREFOR**

(Title of the Invention)

the specification of which

☐

is attached hereto

OR

☒

was filed on (MM/DD/YYYY)

02/18/2004

as United States Application Number or PCT International

Application Number

10/782,516

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR:**

A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Dwight W.

Lohr

Inventor's Signature

Date

Residence: City

State

Country

Citizenship

Upper Sandusky

Ohio

USA

USA

Mailing Address

542 North 8th Street

City

State

Zip

Country

Upper Sandusky

Ohio

43351

USA

**NAME OF SECOND INVENTOR:**

A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

James B.

Brown

Inventor's Signature

Date

Residence: City

State

Country

Citizenship

Lakewood

Illinois

USA

USA

Mailing Address

225 Sunset Drive

City

State

Zip

Country

Lakewood

Illinois

60014

USA



Additional inventors or a legal representative are being named on the \_\_\_\_\_ supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.





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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Diamond Roll Up Door, Inc.

Application No./Patent No./Control No.: 10/782,516 Filed/Issue Date: February 18, 2004

Entitled: Composite Hinged-Door and Insert Therefor

Diamond Roll Up Door, Inc., a corporation of Ohio

(Name of Assignee)

(Type of Assignee: corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. James B. Brown  
in the United States Patent and Trademark Office at Reel XXXXXXXX Frame XXXXXXXX or a true copy of the  
original assignment is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
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☒ Additional documents in the chain of title are listed on a supplemental sheet.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Stephanie Kettels  
Signature

Stephanie Kettels

Printed or Typed Name

President  
Title

2/8/04  
Date

419-294-3373/800-808-1906

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Statement Under 37 CFR 3.73(b)  
Supplemental Sheet

A true copy of an Employee Agreement Relating To Copyrights, Inventions and Confidentiality executed by Dwight Lohr on May 6, 2003 agreeing to assign to Diamond Roll-Up Door, Inc. ("Company") all inventions conceived or developed by him during "... the course of my employment with the Company..."



## DIAMOND ROLL UP DOOR, Inc.

### Employee Agreement Relating to Copyrights, Inventions and Confidentiality

This agreement is made with, and for the benefit of, Diamond Roll Up Door, Inc., its subsidiaries and associated corporations (together called the "Company") by the undersigned Employee.

In consideration of my employment with the Company, I, the undersigned Employee, agree to the following:

#### I. Copyrights

- (a) I agree that the Company shall be the sole copyright holder of all copyright works of any kind or description created or developed by me, either alone or in collaboration with others, in the performance of my duties during my employment with the Company.
- (b) I agree to execute any written acknowledgements or assignments of copyright ownership of any works covered by this agreement as the Company may deem necessary or desirable for the Company to preserve its worldwide proprietorship of copyrights.

#### II. Assignment of Inventions

- (a) I agree to disclose to the Company in writing and I hereby assign to the Company, without additional consideration, all inventions, processes, diagrams, methods, and improvements that I discover, conceive, or develop, either individually or in collaboration with others, during the course of my employment with the Company, or with the use of the Company's time, data, facilities, or materials, concerning a Company field of interest. I agree to this assignment irrespective of whether the idea for the invention occurred to me at work, at home, or anywhere else. I also agree that such inventions are the Company's exclusive property, regardless of whether the Company files a patent application on the invention. I agree to execute such assignments and other documents as the Company may determine are necessary or desirable to secure for the Company the exclusive rights to the inventions assigned hereby.
- (b) Company fields of interest include all fields of interest that have been worked on by the Company in the past, or in which there is work in progress at the Company during my employment, including Company operations in planning stages. I understand that this assignment of inventions does not cover any patents that are based exclusively on inventions made by me before my employment with the Company began, and it does not cover other inventions that are not within the

Initialed by Employee:

DL

Initialed By Company:

[Signature]

Company's fields of interest, which are developed solely on my own without using Company time or materials.

### III. Confidential Information

- (a) I understand that my position with the Company is one of trust and confidence because of my access to trade secrets and confidential and proprietary business information. I pledge my best efforts to protect and keep secret the trade secrets and confidential or proprietary technical and business information of the Company.
- (b) Unless required by the Company in connection with my employment or with the Company's express written consent, I will not, either during my employment or afterwards, directly or indirectly, use or disclose for my benefit or the benefit of another, any of the Company's trade secrets or confidential or proprietary information, whether or not the information is acquired, learned, attained or developed by myself alone or in conjunction with others. I make the same pledge with regard to the confidential information of the Company's customers, contractors, or others with whom the Company has a business relationship.
- (c) I also agree that all notes, records, drawings, memoranda and other documents that are made or compiled by me or which were available to me while employed at the Company and which include any confidential or proprietary business information of the Company shall be the sole property of the Company. I agree to deliver such documents to the Company upon the termination of my employment or at any other time at the Company's request.
- (d) I understand that the Company expects me to respect all trade secrets and confidential or proprietary information of any of my former employers, business associates, or any others. I agree not to use for the benefit of the Company or disclose to the Company, its officers, or any employees any such information so long as it remains confidential.

### IV. Miscellaneous

- (a) Nothing in this agreement shall be interpreted to impair either my right or the right of the Company to terminate at will my employment with the Company at any time.
- (b) I understand that my obligations under this agreement will continue at all times during and after my employment with the Company, whether or not my employment with the Company was terminated voluntarily or involuntarily, and with or without cause.

Initialed by Employee:

DL

Initialed By Company:

[Signature]

- (c) This agreement shall be binding upon the Company, and its successors, and upon me and my heirs, executors and administrators.
- (d) This agreement replaces any previous agreement relating to the same or similar subject matter which I may have entered into with the Company, and shall be deemed effective from the date on which I first became employed by the Company. This agreement may not be changed except by a written document signed by both the Company and by me.

Dwight Lohr  
Signature of the Employee  
DWIGHT LOHR  
Name of Employee  
5-6-03  
Date

DAVID WISEMAN  
Accepted for the Company  
DAVID WISEMAN  
Accepted by  
VICE-PRESIDENT  
Position  
5/6/03  
Date

The undersigned hereby declares, of her own knowledge, that this is a true copy of an Employee Agreement Relating To Copyrights, Inventions and Confidentiality executed by Dwight Lohr on May 6, 2003, and further that the foregoing statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Stephanie Kettels  
Stephanie Kettels  
President  
Diamond Roll Up Door, Inc.  
February 6, 2006

Initialed by Employee: DL

Initialed By Company: DAVID WISEMAN



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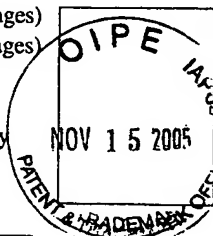
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SERIAL NO. 10/782,516 CASE NO. 04015APPLICANT(S): Dwight D. Lohr et al. PMR/kab

Composite Insert Concept

THE PATENT OFFICE MAIL ROOM DATE STAMP HEREON  
ACKNOWLEDGES RECEIPT OF THE FOLLOWING ITEMS:
☐ Patent Application (Spec. \_\_\_\_\_ pages)  
(Claims \_\_\_\_\_ pages)(Abst. \_\_\_\_\_ pages)
☐ Drawing(s) (\_\_\_\_\_ sheets)☐ Assignment☐ Declaration and Power of Attorney☐ Small Entity Declaration☒ Express Mail CertificateNo. EV439669769US☐ Fees \$ \_\_\_\_\_ (check)☒ Other Status Inquiry☐ Amendment☐ I.D.S. and \_\_\_\_\_ References☐ \_\_\_\_\_ Extension of Time☐ Issue Fee Transmittal☐ Advance Patent Copy Order☐ Maintenance Fee Transmittal☐ TM/SM Application☐ TM/SM Exhibits(3)☐ Sec. 8 & 15 Declaration

SERIAL NO. 10/782,516 CASE NO. 04015

APPLICANT(S): Dwight D. Lohr et al. PMR/kab

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☐ Drawing(s) (\_\_\_\_\_ sheets)

☐ Assignment

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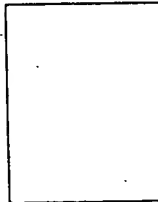
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☒ Other Status Inquiry



☐ Amendment

☐ I.D.S. and \_\_\_\_\_ References

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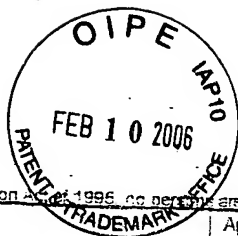
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**TRANSMITTAL  
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Total Number of Pages in This Submission

Application Number

10/782,516

Filing Date

February 18, 2004

First Named Inventor

Dwight D. Lohr et al.

Art Unit

Examiner Name

Attorney Docket Number

04015

**ENCLOSURES**

(Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input checked="" type="checkbox"/> Status <del>XXXX</del> Inquiry
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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	Emch, Schaffer, Schaub & Porcello Co., L.P.A.		
Signature			
Printed name	Philip M. Rice		
Date	Reg. No.	20,855	

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Kathy A. Burgess

Date

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04015

Practitioner's Docket No. \_\_\_\_\_

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Dwight D. Lohr et al.  
 Application No.: 0 10/ 782,516 Group No.:  
 Filed: February 18, 2004 Examiner:  
 For: COMPOSITE INSERT CONCEPT

Assistant Commissioner for Patents  
 Washington, D.C. 20231

**STATUS INQUIRY**

1. More than 20 months have passed since

☒ **NEW APPLICATIONS**

the filing of this application on February 18, 2004.

No communication has been received from the Patent and Trademark Office indicating action on this application.

☐ **AMENDED APPLICATIONS**

the filing of a response on \_\_\_\_\_.

No further communication has been received from the Patent and Trademark Office.

☐ **APPEALED APPLICATION**

The Appeal Brief was filed on \_\_\_\_\_.

*(check and complete applicable items below)*

☐ An Examiner's Answer was mailed on \_\_\_\_\_.

☐ A Reply to the Examiner's Answer was submitted on \_\_\_\_\_.

☐ **ALLOWED APPLICATIONS**

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AMENDED applications within five or six months after the filing of a response to which no reply from the PTO has been received, or ALLOWED applications where a notice of allowance is not received within three (3) months from the receipt of either a Form PTOL-327 or an Examiner's Amendment.

See Notice of November 24, 1971 (893 O.G. 810); M.P.E.P. § 203.08, 7th ed.

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**SIGNATURE OF PRACTITIONER**

Phillip M. Rice

(type or print name of practitioner)

P.O. Box 916

P.O. Address

Toledo, OH 43697-0916

**STATUS INQUIRY REPLY**

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☐ ACTION BY THE EXAMINER.

☐ APPLICANT'S RESPONSE TO THE OFFICE ACTION MAILED

APPEAL NO. \_\_\_\_\_

☐ IS AWAITING ACTION BY THE BOARD OF PATENT APPEALS AND INTERFERENCES

☐ DATE OF HEARING EXPECTED \_\_\_\_\_

☐ DECISION EXPECTED \_\_\_\_\_

(Status Inquiry [9-3]—page 2 of 2)



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SERIAL NO. 10/782,516 CASE NO. 04015

APPLICANT(S): Dwight D. Lohr et al. PMR/kab

COMPOSITE INSERT CONCEPT

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☐ I.D.S. and \_\_\_\_\_ References

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☐ TM/SM Application

☐ TM/SM Exhibits(3)

☐ Sec. 8 & 15 Declaration

EV439671113US

SERIAL NO. 10/782,516 CASE NO. 04015

APPLICANT(S): Dwight D. Lohr et al. PMR/kab

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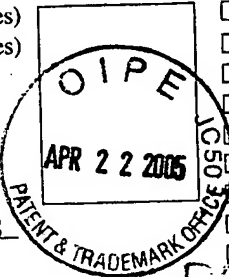
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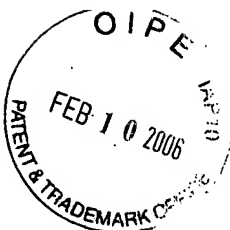
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Application Number

10/782,516

Filing Date

February 18, 2004

First Named Inventor

Dwight D. Lohr et al.

Art Unit

Examiner Name

Attorney Docket Number

04015

**ENCLOSURES (Check all that apply)**

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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	Emch, Schaffer, Schaub & Porcello Co., L.P.A.		
Signature			
Printed name	Philip M. Rice		
Date	April 22, 2005	Reg. No.	20,855

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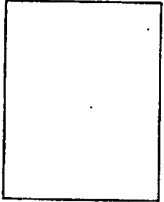
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SERIAL NO. 10/782,516 CASE NO. C4015

APPLICANT(S): Dwight D. Lohr et al. PMR

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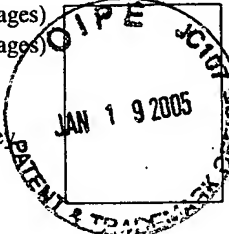
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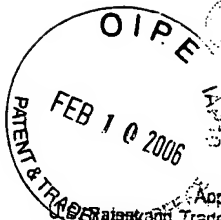
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	Filing Date	February 18, 2004
	First Named Inventor	Dwight D. Loch et al.
	Art Unit	
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	04015

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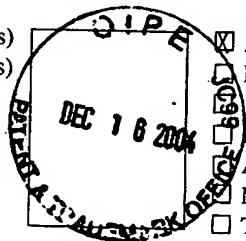
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APPLICANT(S): Dwight D. Lohr et al. TAM/kah

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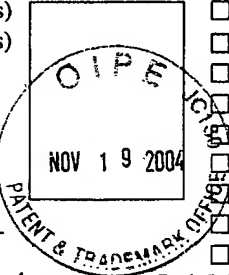

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APPLICANT(S): Dwight W. Lohr TAM/kah

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	Filing Date	February 18, 2004
	First Named Inventor	Dwight D. Lohr et al.
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Signature	Thomas A. Meehan
Printed name	Thomas A. Meehan
Date	Dec. 16, 2004
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04015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Dwight D. Lohr et al.  
Serial No: 10/782,516  
Filed: February 18, 2004  
For: COMPOSITE INSERT CONCEPT

Exr.:  
Art Unit:  
Confirmation No.:

Commissioner of Patents  
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Washington, D.C. 20231

December 16, 2004

**PRELIMINARY AMENDMENT AND TRANSMITTAL OF REPLACEMENT**

**DRAWING SHEETS**

Sir:

Prior to the first Office Action on the merits of this application, Applicants would like to amend this application as follows:

In The Specification

Please replace the paragraph on page 2, beginning at line 15, with the following:

A composite hinged door according to the present invention, which was designed specifically to serve as an upwardly acting or roll-up rear door for a truck body, comprises a series of composite panels in which adjacent panels are hinged to permit the panels to articulate with respect to one another during the opening of the door. Each panel is of composite construction, with a central layer of a lightweight material, such as a plastic material, that is sandwiched between inner and outer layers of a sheet metal, the central layer imparting rigidity and heat and/or noise insulating properties to each door panel and the inner and outer layers imparting strength and impact resistance to each panel. A hard, durable insert is embedded in a recess in a an edge of the central layer of a panel with a portion of such insert extending beyond the edge of the panel. The extending portion of the insert is received in a recess or groove in an edge of an adjacent panel when the panels are aligned in a straight line in a closed door, to maintain proper alignment between the adjacent panels. The portion of the insert that extends into the recess of the adjacent panel is much more resistant to abrasion or wear than would be protruding tongue of a typical central layer of a composite, hinged panel door, which thereby extends the duration during which adjacent panels can be accurately aligned over many closings of the hinged panel door.

Please replace the paragraph on page 5, beginning at line 6, with the

following:

The insert 24 also has a spaced, axially extending series of longitudinally extending and outwardly projecting ribs 24e 24d on each of the opposed longitudinally extending surface of the shank portion 24a to help to frictionally retain the insert in the recess 12a. The insert 24 also has a flat free end surface 24d 24e.

10/782,516

04015

In the Drawing

Please substitute the enclosed 2 replacement sheets of drawing figures for their originally-filed counterparts.

Remarks

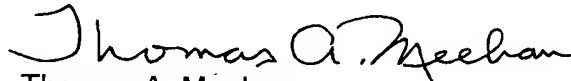
A minor correction of an editorial nature is being made to the specification at page 2, line 24; and reference numeral corrections are being made at page 5, lines 7 and 10. Each of the requested amendments is believed to be proper; no impermissible new matter is being added.

Replacement drawing sheets of a formal character are enclosed to be substituted for their informal, originally-filed counterparts. These replacement sheets are believed to be proper and unobjectionable; no impermissible new matter is being added.

Favorable action on this application at an early date are respectfully requested.

Respectfully submitted,

EMCH, SCHAFFER, SCHAUB  
& PORCELLO CO., L.P.A.

  
Thomas A. Meehan  
Reg. No. 19,713

P.O. Box 916  
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PTO/SB/21 (09-04)

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/782,516	
	Filing Date	02/18/2004	
	First Named Inventor	Dwight W. Lohr	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	2	Attorney Docket Number	04015

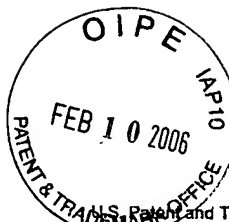
ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm Name	Emch, Schaffer, Schaub & Porcello Co., L.P.A.
Signature	<i>Thomas A. Meehan</i>
Printed name	Thomas A. Meehan
Date	Nov. 17, 2004
Reg. No.	19,713

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Signature	<i>Kathy A. Hower</i>
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<b>RESCISSION OF PREVIOUS NONPUBLICATION REQUEST</b> (35 U.S.C. 122(b)(2)(B)(ii)) <b>AND, IF APPLICABLE,</b> <b>NOTICE OF FOREIGN FILING</b> (35 U.S.C. 122(b)(2)(B)(iii))	Application Number	10/782,516
	Filing Date	02/18/2004
	First Named Inventor	Dwight W. Lohr
	Title	Composite Hinged-Door ...
	Atty Docket Number	04015
	Art Unit	
	Examiner	

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A request that the above-identified application not be published under 35 U.S.C. 122(b) (nonpublication request) was included with the above-identified application on filing pursuant to 35 U.S.C. 122(b)(2)(B)(i).  
I hereby rescind the previous nonpublication request.

If a notice of foreign or international filing is or will be required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c), I hereby provide such notice. This notice is being provided no later than forty-five (45) days after the date of such foreign or international filing.

If a notice of subsequent foreign or international filing required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c) was not filed within forty-five (45) days after the date of filing of the foreign or international application, the application is ABANDONED, and a petition to revive under 37 CFR 1.137(b) is required. See 37 CFR 1.137(f).

Thomas A. Meehan  
Signature

Nov. 17, 2004  
Date

Thomas A. Meehan

Typed or printed name

19,713

Registration Number, if applicable

419-243-1294

Telephone Number

**This request must be signed in compliance with 37 CFR 1.33(b).**

If information or assistance is needed in completing this form, please contact the Pre-Grant Publication Division at (703)605-4283 or by e-mail at [PGPub@USPTO.gov](mailto:PGPub@USPTO.gov).

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Kathy A. Hower  
Kathy A. Hower

Name (Print/Type)

Date

11/17/04

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SERIAL NO. \_\_\_\_\_ CASE NO. 04015

APPLICANT(S): Dwight W. Lohr et al. TAM/kah

Composite Hinged-Door And Insert Therefor

THE PATENT OFFICE MAIL ROOM DATE STAMP HEREON  
ACKNOWLEDGES RECEIPT OF THE FOLLOWING ITEMS:

☒ Patent Application (Spec. 5 pages)  
(Claims 2 pages)(Abst. 1 pages)

☐ Drawing(s) ( sheets)

☐ Assignment

☐ Declaration and Power of Attorney

☒ Small Entity Declaration

☒ Express Mail Certificate

No. EV325384772 US

☒ Fees \$ 385.00 (check)

☒ Other Req. and Cert Under 35 USC 122(b)(2)(B)(i)

☐ Amendment

☒ I.D.S. and References

☐ Extension of Time

☐ Issue Fee Transmittal

☐ Advance Patent Copy Order

☐ Maintenance Fee Transmittal

☐ TM/SM Application

☐ TM/SM Exhibits(3)

☐ Sec. 8 & 15 Declaration

EV325384772US

SERIAL NO. \_\_\_\_\_ CASE NO. 04015

APPLICANT(S): Dwight W. Lohr et al. TAM/kah

Composite Hinged-Door And Insert Therefor

THE PATENT OFFICE MAIL ROOM DATE STAMP HEREON  
ACKNOWLEDGES RECEIPT OF THE FOLLOWING ITEMS:

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(Claims 2 pages)(Abst. 1 pages)

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☒ Express Mail Certificate

No. EV325384772 US

☒ Fees \$ 385.00 (check)

☒ Other Req. and Cert Under 35 USC 122(b)(2)(B)(i)

☐ Amendment

☒ I.D.S. and References

☐ Extension of Time

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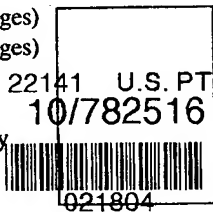
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☐ TM/SM Application

☐ TM/SM Exhibits(3)

☐ Sec. 8 & 15 Declaration



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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

04015

First Inventor

Dwight W. Lohr et al.

Title

Composite Hinged-Door And  
Insert Therefor

Express Mail Label No.

EV 325384772 US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

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1. ☐ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 8]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☐ Drawing(s) (35 U.S.C. 113) [Total Sheets \_\_\_\_\_]
5. Oath or Declaration [Total Sheets \_\_\_\_\_]
  - a. ☐ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
name in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ Paper
  - c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☒ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
17. ☐ Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation☐ Divisional☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_

Prior application information:

Examiner \_\_\_\_\_

Art Unit: \_\_\_\_\_

For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

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OR ☐

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City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

Thomas A. Meehan

Registration No. (Attorney/Agent)

19,713

Signature

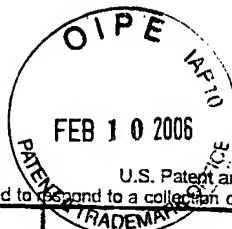
Thomas A. Meehan

Date

Feb. 18, 2004

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 385.00

## Complete if Known

Application Number  
Filing Date  
First Named Inventor Dwight W. Lohr et al.  
Examiner Name  
Art Unit  
Attorney Docket No. 04015

## METHOD OF PAYMENT (check all that apply)

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## FEE CALCULATION

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Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	385.00
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)				(\$)	385.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
7	-20** =	X	0.00
Independent Claims	-3** =	X	0.00
Multiple Dependent			

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0.00

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## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
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Other fee (specify)

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## SUBMITTED BY

(Complete if applicable)

Name (Print/Type) Thomas A. Meehan Registration No. 19,713 Telephone 419-243-1294  
Signature Thomas A. Meehan Date Feb 18, 2004

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**REQUEST AND CERTIFICATION  
UNDER  
35 U.S.C. 122(b)(2)(B)(I)**

First Named Inventor

Dwight W. Lohr et al.

Title

Composite Hinged-Door And Insert Therefor

Atty Docket Number

04015

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Feb 18, 2004

Date

Thomas A. Meehan

Signature

Thomas A. Meehan

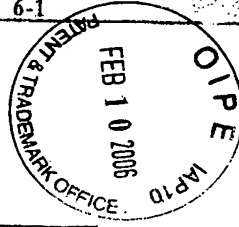
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If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

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Practitioner's Docket No. 04015

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent application

of \_\_\_\_\_  
Inventor(s)for \_\_\_\_\_  
Title of invention

the specification of which is being transmitted herewith

**OR**

In re application of: Dwight W. Lohr et al.

Application No.: 0 / Group No.:

Filed: Examiner:

For: COMPOSITE HINGED-DOOR AND INSERT THEREFOR

Assistant Commissioner for Patents  
Washington, D.C. 20231**INFORMATION DISCLOSURE STATEMENT****CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10\***(When using Express Mail, the Express Mail label number is mandatory;  
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Date: 2/18/04

Signature

Kathy A. Hower

(type or print name of person certifying)

(Information Disclosure Statement [6-1]—page 1 of \_\_\_\_)



NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant within any one of the following time periods:

(1) Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);

(2) Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;

(3) Before the mailing date of a first Office action on the merits; or

(4) Before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114."

37 C.F.R. § 1.97(b).

NOTE: "Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section." 37 C.F.R. § 1.56(a).

"Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) each inventor named in the application;

(2) each attorney or agent who prepares or prosecutes the application; and

(3) every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application." 37 C.F.R. § 1.56(c).

NOTE: The "duty as described in § 1.56 will be met so long as the information in question was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98 before issuance of the patent." Notice of January 9, 1992, 1135 O.G. 13 -25 at 17.

WARNING: "No information disclosure statement may be filed in a provisional application." 37 C.F.R. § 1.51(d).

### List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

(check sections forming a part of this statement: discard unused sections and number pages consecutively)

1. ☒ Preliminary Statements
2. ☒ FORMS PTO/SB/08A and 08B (formerly FORM PTO-1449)
3. ☐ Statement as to Information Not Found in Patents or Publications
4. ☐ Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
5. ☐ Cumulative Patents or Publications
6. ☒ Copies of Listed Information Items Accompanying This Statement
7. ☐ Concise Explanation of Non-English Language Listed Information Items
  - 7A. ☐ EPO Search Report
  - 7B. ☐ English Language Version of EPO Search Report
8. ☐ Translation(s) of Non-English Language Documents
9. ☐ Concise Explanation of English Language Listed Information Items (Optional)
10. ☒ Identification of Person(s) Making This Information Disclosure Statement

(complete the following, if appropriate)

Sections \_\_\_\_\_, respectively, have been continued on ADDED PAGE(S).

NOTE: "Once the minimum requirements are met, the examiner has an obligation to consider the information." Notice of April 20, 1992 (1138 O.G. 37-41, 37).

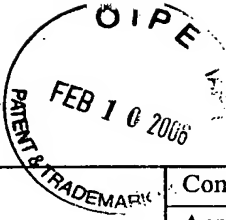
(Information Disclosure Statement [6-1]—page 2 of \_\_\_\_\_)

**Section 1. Preliminary statements**

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.



<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(Use as many sheets as necessary)</p>				Complete if Known			
				Application Number			
				Filing Date			
				First Named Inventor			
				Group Art Unit			
				Dwight W. Lohr et al.			
				Examiner Name			
				Attorney Docket Number			
Sheet				of		04015	

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NumberKind Code (if known)			
		US- 3,334,681	07/06/1964	F.D. Crosswell	
		US- 5,435,108	07/25/1995	Overholt et al.	
		US- 5,588,475	12/31/1996	Martin	
		US- 6,148,896	11/21/2000	Pinto et al.	
		US- 2002/0056528 A1	05/16/2002	Whitley	
		US- 2002/0139490 A1	10/03/2002	Marzari Chiesa et al.	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number-Kind Code (if known)				

Examiner Signature		Date Considered	
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## Section 6. Copies of Listed Information Items Accompanying This Statement

NOTE: 37 C.F.R. § 1.98(a)(2) requires that any information disclosure statement filed under § 1.97 shall include:  
"A legible copy of:

- (i) Each U.S. patent application publication and U.S. and foreign patent;
- (ii) Each publication or that portion which caused it to be listed;
- (iii) For each cited pending U.S. application, the application specification including the claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion. . ."

Legible copies of all items listed in Forms PTO/SB/08A and 08B (formerly Form PTO-1449) accompany this information statement.

(complete the following, if applicable)

- ☐ Exception(s) to above:
  - ☐ Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.
  - ☐ Cumulative patents or publications identified in Section 5.

(Information Disclosure Statement—Section 6. Copies of Listed Information Items Accompanying  
This Statement [6-1]—page \_\_\_\_\_ of \_\_\_\_\_ )

**Section 10. Identification of Person(s) Making This Information Disclosure Statement**

The person making this statement is

*(check each applicable item)*

- (a) ☐ the inventor(s) who signs below

SIGNATURE OF INVENTOR

*(type name of inventor who is signing)*

- (b) ☐ an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c))

SIGNATURE OF INVENTOR

*(type name of inventor who is signing)*

- (c) ☒ the practitioner who signs below on the basis of the information:

*(check each applicable item)*

- ☒ supplied by the inventor(s).  
☒ supplied by an individual associated with the filing and prosecution of this application. (37 C.F.R. § 1.56(c))  
☒ in the practitioner's file.

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*Thomas A. Meehan*  
SIGNATURE OF PRACTITIONER

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P.O. Address

Toledo, OH 43697-0916

(Information Disclosure Statement—Section 10. Identification of Person(s) Making This Information Disclosure Statement [8-1]—page \_\_\_\_ of \_\_\_\_)



**SPECIFICATION**

**TO ALL WHOM IT MAY CONCERN:**

5           Be it known that DWIGHT W. LOHR, a citizen of the United States of  
America, resident of Upper Sandusky, County of Wyandot, State of Ohio, and  
JAMES B. BROWN, a citizen of the United States of America, resident of  
Lakewood, County of McHenry, State of Illinois, have invented a new and  
useful improvement in a

10

**COMPOSITE HINGED-DOOR AND INSERT THEREFOR**

which invention is fully set forth in the following specification.

15



## COMPOSITE HINGED DOOR AND INSERT THEREFOR

### **CROSS-REFERENCE TO RELATED APPLICATION**

- 5           This application is based on provisional application No. 60/520,878, which was filed on November 18, 2003.

### **FIELD OF THE INVENTION**

- 10           This invention relates to the construction of an upwardly acting or roll-up door that is made up of a series of a composite panels with adjacent panels in the series being hinged to one another. More particularly, this invention relates to a panel construction for such a door with a hard, durable insert that extends partly from such panel to be received in a recess of an adjacent panel when the panels are aligned with one another in a straight line, and to the
- 15           insert for use in such a composite, hinged door.

### **BACKGROUND OF THE INVENTION**

- 20           Upwardly acting doors with a series of hinged panels to impart flexibility to each such door are known in the art and are extensively used in garages and warehouses, especially warehouses with high clearance, and in truck bodies. U.S. Patent Application Publication Nos. 2002/0056528A1 and 2002/0139490A1 each discloses a known type of upwardly acting door that has a series of panels hinged to one another. For purposes of aligning
- 25           adjacent panels in a hinged door when the door is closed, it is important that each panel have an edge with a projection or tongue that is received in a groove or recess of an edge of the adjacent panel in the series when the panels are aligned in a straight line. U.S. Patent 3,334,681 (Crosswell) is an example of a prior art reference that teaches such a feature.

- 30           The panels of many roll-up doors, as heretofore described, are now often constructed of a plurality of materials, with a thicker central layer of a lighter weight material, sandwiched between inner and outer layers of

thinner, but heavier, metallic structural materials, such as sheets of aluminum or steel. Such construction helped to reduce door weight for a given door thickness while providing sufficient rigidity to the door, and it serves to reduce heat and/or noise transfer through such door, when closed.

- 5 In these cases, it is important that the tongue and groove connection between adjacent panels in a series of hinged panels be solely between the central layers of such panels, but the lightweight materials that are now preferred for such hinged doors tend to be abradable in the region of the tongues of the door panels, which detracts from the precision of a tongue  
10 and groove alignment feature in a hinged-panel door over a prolonged duration of frequent openings and closings.

#### **BRIEF DESCRIPTION OF THE INVENTION**

- 15 A composite hinged door according to the present invention, which was designed specifically to serve as an upwardly acting or roll-up rear door for a truck body, comprises a series of composite panels in which adjacent panels are hinged to permit the panels to articulate with respect to one another during the opening of the door. Each panel is of composite construction, with a  
20 central layer of a lightweight material, such as a plastic material, that is sandwiched between inner and outer layers of a sheet metal, the central layer imparting rigidity and heat and/or noise insulating properties to each door panel and the inner and outer layers imparting strength and impact resistance to each panel. A hard, durable insert is embedded in a recess in a edge of the  
25 central layer of a panel with a portion of such insert extending beyond the edge of the panel. The extending portion of the insert is received in a recess or groove in an edge of an adjacent panel when the panels are aligned in a straight line in a closed door, to maintain proper alignment between the adjacent panels. The portion of the insert that extends into the recess of the  
30 adjacent panel is much more resistant to abrasion or wear than would be a protruding tongue of a typical central layer of a composite, hinged panel door,



which thereby extends the duration during which adjacent panels can be accurately aligned over many closings of the hinged panel door.

Accordingly, it is an object of the present invention to provide an improved composite, hinged panel door. More particularly, it is an object of the present invention to provide a hinged panel door of the aforesaid character in which accurate alignment of adjacent hinged panels can be maintained over an extended duration of openings and closings of the door. Even more particularly, it is an object of the present invention to provide a hinged panel door of the aforesaid character with an improved tongue and groove locking feature in which the tongue is a portion of a hard, durable material that is highly resistance to abrasion or wear over many openings and closings of the hinged panel door. It is also an object of the present invention to provide in an insert of the foregoing character for such a hinged-panel door.

For a further understanding of the present invention and the objects thereof, attention is directed to the drawing and the following brief description thereof, to the detailed description of the invention and to the appended claims.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

Fig. 1 is an elevation view of a hinged panel door according to a preferred embodiment of the present invention;

Fig. 2 is a fragmentary sectional view at an enlarged scale, taken on line 2-2 of Fig. 1;

Fig. 3 is a view like Fig. 2 that illustrates the structure of Fig. 2 in different relative positions of certain of the elements thereof; and

Fig. 4 is an elevation view, at an enlarged scale, of an element of the structure of Figs. 2 and 3.

#### **DETAILED DESCRIPTION OF THE INVENTION**

A hinged panel door according to a preferred embodiment of the present invention is generally identified by reference numeral 10 in Fig. 1.

The hinged panel door 10 is made up of a vertically extending series of horizontally extending panels, including panels 12 and 14, and adjacent panels in the vertically extending series are hinged to one another, for example, by way of a hinge 16 (Figs. 2 and 3), which permits the panels 12 and 14 to articulate with respect to one another. Each of the panels 12 and 14 is of composite construction, with a thick, central layer of a lightweight material 18, such as a plastic material, sandwiched between thin, inner and outer layers 20, 22, respectively, which are of aluminum or steel sheet. Preferably, the central layer 18 is an expanded or gas injected polyethylene, and the inner and outer layers are of automotive quality galvanized steel, primed and pre-painted. The layers 20, 22 impart strength and impact resistance to the panels 12, 14, and the central layer 18 imparts rigidity and sound and/or thermal transfer resistance thereto.

A hard, durable insert 24, which may be of a ceramic material or PVC, is provided at a juncture of the panels 12, 14 to ensure that the panels 12, 14 accurately align themselves with one another upon the closing of the door 10 when the panel 14 moves relative to the panel 12 from the position indicated in Fig. 3 to the position indicated in Fig. 2. The insert 24 has a shank portion 24a that is permanently embedded in a recess 12a of the central layer 18 of the panel 12. The insert 24 also has an enlarged head portion 24b that extends beyond the inlet to the recess 12a of the central layer 18 of the panel 12. The head portion 24b, which has a tapered edge 24c that is positioned away from the hinge 16 and extends inwardly toward the hinge 16 as it projects outwardly from the panel 12, is received in a recess 14a in the central layer 18 of the panel 14, the recess 14a being in a free edge of the central layer 18 of the panel 14 and being complementally-shaped to the head portion 24b of the insert 24. Thus, when the panel 14 is aligned with the panel 12 in a straight line, as depicted in Fig. 2, the head

portion 24b of the insert 24 will substantially fill the recess 14a of the central layer 18 of the panel 14, and will thereby serve to ensure that the panels 12, 14 align themselves accurately when they move from the relative positions depicted in Fig. 3 to the relative positions depicted in Fig. 2.

The insert 24 also has a spaced, axially extending series of longitudinally extending and outwardly projecting ribs 24c on each of the opposed longitudinally extending surface of the shank portion 24a to help to frictionally retain the insert in the recess 12a. The insert 24 also has a flat free end surface 24d.

Though the best mode contemplated by the inventor(s) for carrying out the present invention as of the filing date hereof has been shown and described herein, it will be apparent to those skilled in the art that suitable modifications, variations, and equivalents may be made without departing from the scope of the invention, such scope being limited solely by the terms of the following claims and the legal equivalents thereof.

**CLAIMS**

I claim:

1. A composite, hinged panel door comprising, in combination:
  - 5 first and second generally rectangular panels aligned in a given direction when the door is closed, each panel extending normally of the given direction, each panel having a relatively thick central layer of a lightweight material sandwiched between relatively thin inner and outer layers of a heavier material, each of the central layers of each of the panels having a  
10 recess in a free edge of the central layer that faces the other of the panels when the panels are in linear alignment;  
a hinge joining the first and second panels to permit the first and second panels to articulate with respect to one another between positions in linear alignment with one another and positions out of linear  
15 alignment with one another;  
a hard durable insert having a shank portion embedded in the recess of one of the first and second panels and an enlarged head portion that extends beyond the free edge of said one of the first and second panels, the enlarged head portion fitting freely within the recess of the central  
20 layer of the other of the first and second panels when the first and second panels are in linear alignment with one another to ensure accuracy in positioning the first and second panels when they are moved from the positions out of alignment to the positions in linear alignment.
- 25 2. A composite, hinged panel door according to claim 1 wherein:  
each of the inner and outer layers is a layer of sheet metal.
3. A composite, hinged panel door according to claim 1 wherein:  
30 the head portion of the insert has a surface that is opposed to the hinge and extends inwardly toward the hinge as it extends outwardly from the one of the first and second panels in which the shank portion of the insert is embedded.

4. A composite, hinged panel door according to claim 1 in which the given direction extends vertically.

5 5. A hard, durable insert for use in a hinged, composite door to ensure accurate alignment of hinged, adjacent panels when the panels are articulated with respect to one another between positions out of linear alignment to positions in linear alignment, said insert comprising:

10 a shank portion adapted to be embedded in a recess in a free edge of one of the adjacent panels; and

an enlarged head portion adapted to be freely received in a recess in a free edge of the other of the adjacent panels, the head portion having a surface that extends outwardly beyond the free edge of one of the panels and extends inwardly towards an opposed surface of the head portion as the head portion extends outwardly from the recess of the one of the adjacent panels.

20 6. An insert according to claim 5 wherein such shank portion has an axially extending spaced plurality of longitudinally extending ridges.

25 7. An insert according to claim 5 wherein said enlarged head portion has a flat free end surface that extends normally of a central axis of the recess in the one of the panels.

**ABSTRACT**

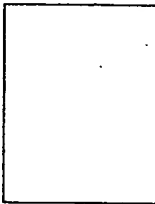
A hinged, composite door having a vertically extending series of horizontally extending panels, adjacent panels of which are hinged to one another. Each panel has a thicker central layer of a lightweight material sandwiched between thin, inner and outer sheet metal layers. A hard, durable insert with a shank portion and an enlarged head portion is provided at a juncture between adjacent panels, the insert having a shank portion embedded in a recess in the central layer of one of the panels and an enlarged head portion that extends beyond the one of the panels to be received in a complementally-shaped recess of the central layer of the adjacent panel when the panels are in alignment with one another.

SERIAL NO. 10/782.516 CASE NO. 04015

APPLICANT(S): Dwight W. Lohr TAM/kah

Composite Hinged-Door ...

**THE PATENT OFFICE MAIL ROOM DATE STAMP HEREON  
ACKNOWLEDGES RECEIPT OF THE FOLLOWING ITEMS:**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Patent Application (Spec. _____ pages)<br>(Claims _____ pages)(Abst. _____ pages) |  | <input type="checkbox"/> Amendment                   |
| <input type="checkbox"/> Drawing(s) (_____ sheets)   |  | <input type="checkbox"/> I.D.S. and _____ References |
| <input type="checkbox"/> Assignment  |  | <input type="checkbox"/> _____ Extension of Time     |
| <input type="checkbox"/> Declaration and Power of Attorney   |  | <input type="checkbox"/> Issue Fee Transmittal       |
| <input type="checkbox"/> Small Entity Declaration  |  | <input type="checkbox"/> Advance Patent Copy Order   |
| <input type="checkbox"/> Express Mail Certificate  |  | <input type="checkbox"/> Maintenance Fee Transmittal |
| No. _____  |  | <input type="checkbox"/> TM/SM Application           |
| <input type="checkbox"/> Fees \$ _____ (check)   |  | <input type="checkbox"/> TM/SM Exhibits(3)           |
| <input checked="" type="checkbox"/> Other <u>Recission Of Previous Non-Publication Request</u>             |  | <input type="checkbox"/> Sec. 8 & 15 Declaration     |